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CNC CHARLESTON
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UNDERGROUND STORAGE TANK (UST) ASSESSMENT REPORT FOR BUILDING 650
CNC CHARLESTON SC
10/04/1996
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

L 3.11.97
LO 32597
RAN

RECEIVED

FEB 07 1997

Groundwater Assessment
and Development Section

Date Received

State Use Only

Submit Completed Form to:
UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston

State: SC

Zip Code: 29419-9010

Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

II SITE IDENTIFICATION AND LOCATION

Site I.D. #: Unregulated

Facility Name: Charleston Naval Base Complex, Building 650 /7781

Street Address: Halsey Street

City: North Charleston, 29405-2413

County: Charleston

III CLOSURE INFORMATION

Closure Started: 27 Sept 1996

Closure Completed: 4 Oct 1996

Number of USTs Closed: 1

N/A

SPORTENVDETHASN

Consultant

UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

LCDR Paul Rose

Name (Type or Print)



Signature

V. UST INFORMATION

- A. Product.....
- B. Capacity.....
- C. Age.....
- D. Construction Material.....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Visible Corrosion or Pitting Y/N.....
- K. Visible Holes Y/N.....

| Tank 1 | Tank 2 | Tank 3 | Tank 4 | Tank 5 | Tank 6 |
|------------|--------|--------|--------|--------|--------|
| Fuel oil | | | | | |
| 1,000 gal. | | | | | |
| 1969 | | | | | |
| Steel | | | | | |
| Unk. | | | | | |
| 6' | | | | | |
| N | | | | | |
| N | | | | | |
| R | | | | | |
| N | | | | | |
| N | | | | | |

- L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 650 was removed, drained, cut open at both ends, and cleaned with a steam cleaner. It was then cut up for recycling as scrap metal. (See Attachment III.)

- M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

The residual fuel oil, waste water, and sludge were recycled.

- N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

UST 650 had a protective coating on its exterior surface. The tank was in good condition, and suffered no corrosion, holes, or pits.

VI. PIPING INFORMATION

- A. Construction Material.....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System P/S.....
- E. Was Piping Removed from the Ground? Y/N....
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Note 1: UST 650 provided fuel oil to building 650's boiler.

| Tank 1 | Tank 2 | Tank 3 | Tank 4 | Tank 5 |
|----------------|--------|--------|--------|--------|
| Copper & steel | | | | |
| 24' | | | | |
| 1 (see note 1) | | | | |
| S | | | | |
| Y | | | | |
| Y | | | | |
| N | | | | |
| 1969 | | | | |

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

The 3/8" copper supply and return lines were in good condition. The 2" steel vent line was corroded throughout its length, but contained no holes or pits.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 650 is the former post office for Naval Base Charleston. UST 650 provided fuel oil to the facility's boiler.

There was a slight sheen on the groundwater in the tank pit. Soil and groundwater samples showed levels of Polynuclear Aromatic Hydrocarbons (PAHs) above the risk based screening levels (RBSLs) established in the "Risk Based Corrective Action (RBCA) for Petroleum Releases". No hole could be found in the tank on site or during cleaning operations, so the petroleum contamination is most probably due to overspill during past fillings.

The bermed soil excavated from the tank pit had elevated PAH levels, the levels were below the RBCA RBSLs, and the soil was returned to the pit.

VIII. SITE CONDITIONS

Yes No Unk

| | | | |
|---|----|----|--|
| <p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p> | | X | |
| <p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p> | | X | |
| <p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p> <p>Bottom center of tank excavation, 6' deep</p> | X | | |
| <p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p> <p>[*see note 2]</p> | | *X | |
| <p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>[*see note 3]</p> <p>If yes, indicate location and thickness on the site map.</p> | *X | | |

Note 2: Angular rock was used to fill the area covered by the groundwater. Geofabric was laid over the rock and then all soil from the excavation was returned to the tank pit.

Note 3: The groundwater had a light product sheen. This was collected with absorbent rags.

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

[illegible]

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

After the removal of UST 650 soil and ground water samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

The samples are identified as follows:

| | Detachment Charleston | | General Engineering Labs |
|---------------------|-----------------------|---|--------------------------|
| Soil Sample | UST650-1 | = | SPORT 0191-1 |
| Soil Sample | UST650-2 | = | SPORT 0191-2 |
| Ground Water Sample | UST650-3 | = | SPORT 0191-3 |
| Soil Sample | UST650-4 | = | SPORT 0191-4 |
| Soil Sample | UST650-5 | = | SPORT 0191-5 |
| Soil Sample | UST650-6 | = | SPORT 0191-6 |

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted at the tank ends just above the ground water level. UST piping soil samples were taken under the piping at the mechanical connections. Ground water samples were taken at the bottom center of the excavation.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

Yes No

| | | | |
|----|---|----|---|
| A. | <p>Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p style="text-align: right;">[*Cooper R. 946']</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p> | *X | |
| B. | <p>Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p> | | X |
| C. | <p>Are there any underground structures (e.g., basements) located within 100 feet of the UST system?</p> <p>If yes, indicate the type of structure, distance, and direction on site map.</p> | | X |
| D. | <p>Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?</p> <p style="text-align: right;">[*Sewer & electricity]</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p> | *X | |
| E. | <p>Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p> | | X |

Attachment I

SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, and 3
Photographs 1, 2, 3, and 4

Cooper River

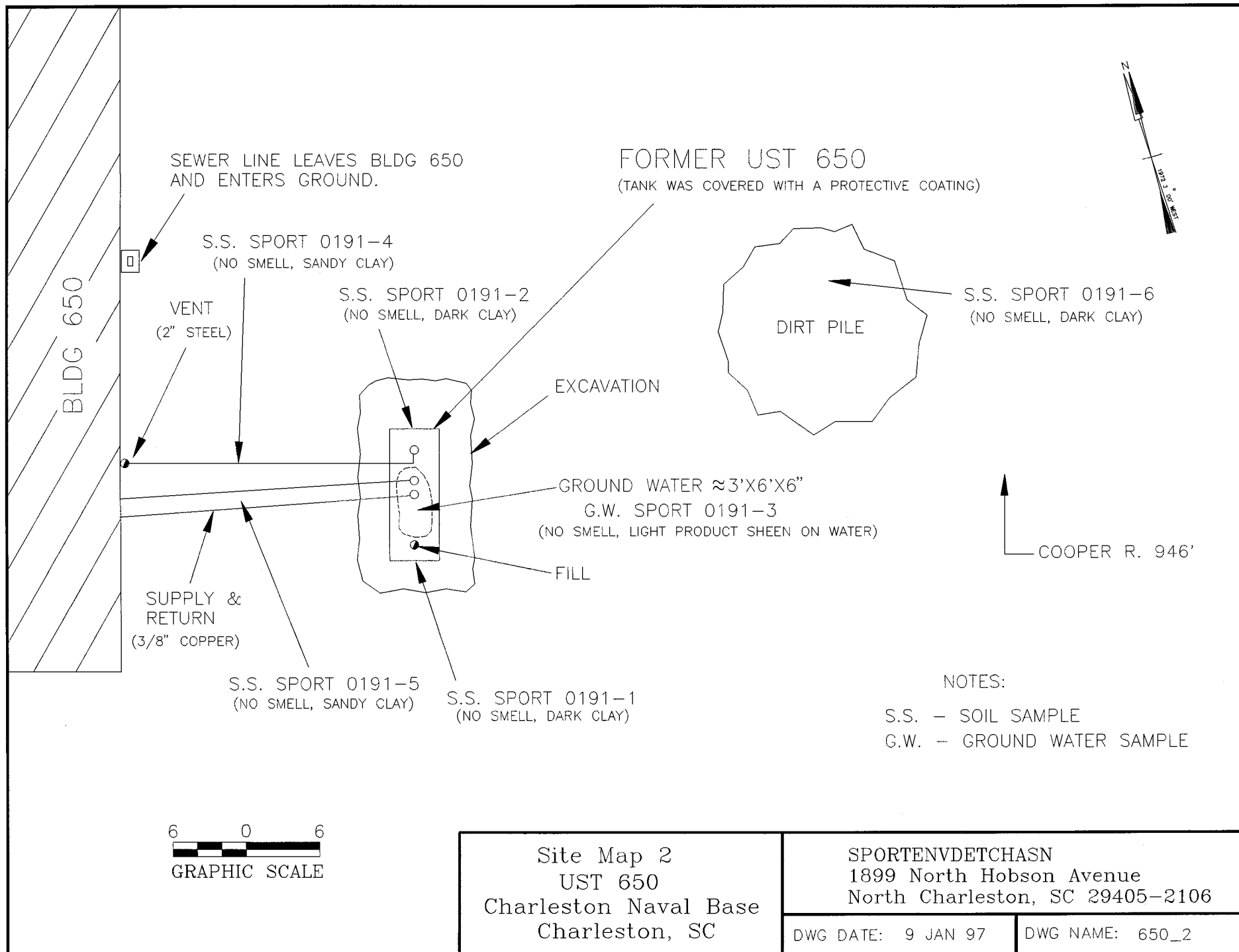
Building 650

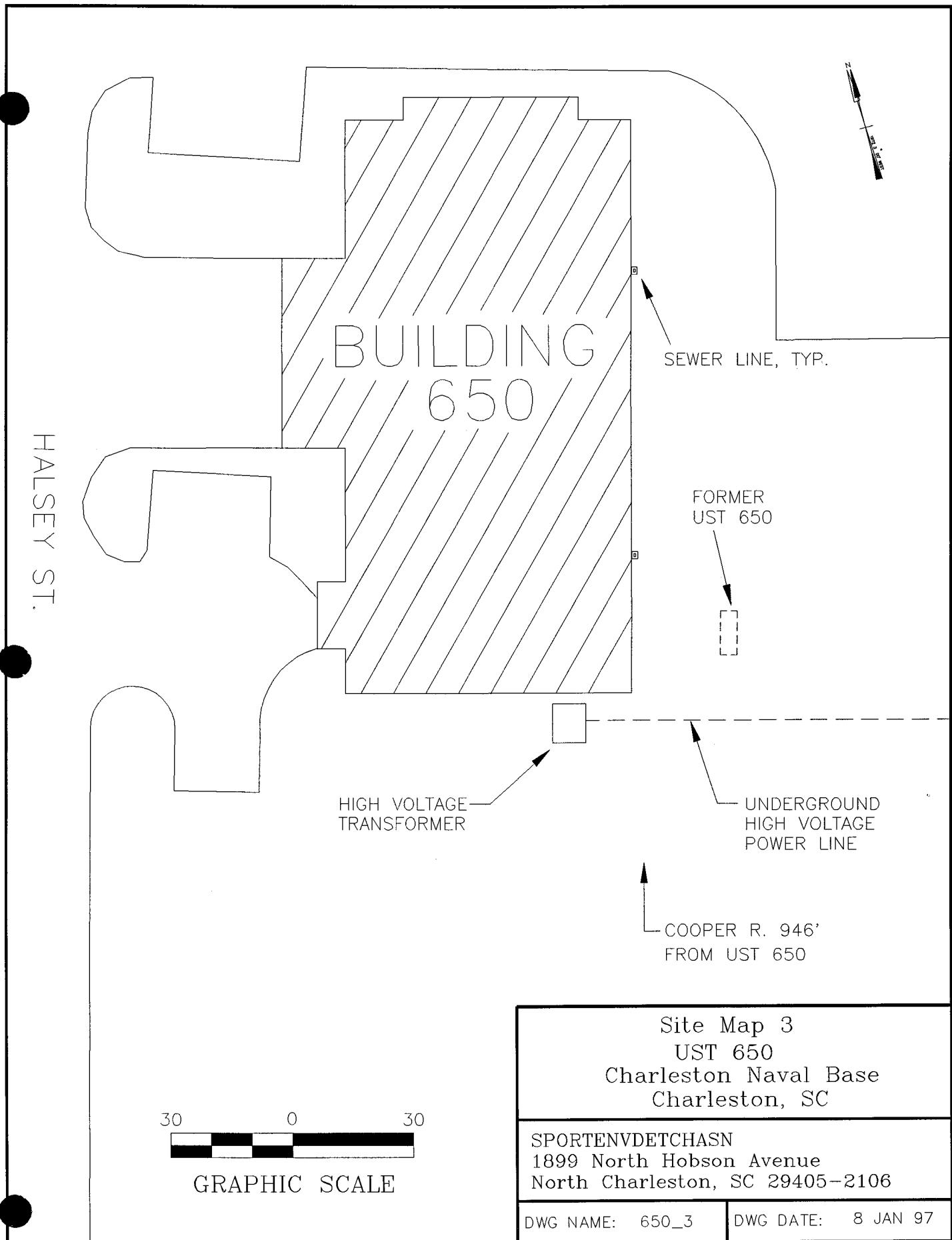
Site Map 1
BUILDING 650
Charleston Naval Base
Charleston, SC

SPORTENVDETHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG NAME: 650_1 DWG DATE: 8 JAN 97

DWG DATE: 8 JAN 97





UST 650



Photo 1: UST 650 partially exposed.



Photo 2: UST 650 being hoisted from the excavation. Note ground water.

UST 650



Photo 3: UST 650 after removal. Note protective coating.



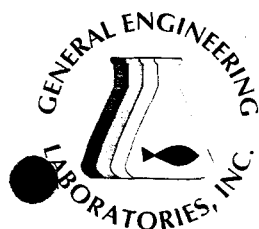
Photo 4: UST 650 being cut and cleaned.

Attachment II

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

| | | |
|-------|--------------|--------------|
| STATE | GEL | EPI |
| FL | E87156/87294 | E87472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 1 of 2

Sample ID : SPORT0191-1
Lab ID : 9610069-01
Matrix : Soil
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| <i>BTEX - 4 items</i> | | | | | | | | | | | |
| Benzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | JGS2 | 10/09/96 | 1918 | 92006 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Toluene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/kg | 1.0 | | | | | |
| Naphthalene | | 2.50 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| <i>Polynuclear Aromatic Hydrocarbons - 16 items</i> | | | | | | | | | | | |
| Acenaphthene | U | 0.00 | 166 | 331 | ug/kg | 1.0 | BDG | 10/10/96 | 2241 | 91877 | 2 |
| Acenaphthylene | U | 0.00 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Anthracene | J | 205 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Benzo(a)anthracene | | 463 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Benzo(a)pyrene | | 351 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Benzo(b)fluoranthene | | 470 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Benzo(ghi)perylene | J | 291 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Benzo(k)fluoranthene | J | 192 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Chrysene | | 444 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Dibenzo(a,h)anthracene | U | 0.00 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Fluoranthene | | 1610 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Fluorene | U | 0.00 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Indeno(1,2,3-c,d)pyrene | J | 301 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Phenanthrene | J | 311 | 166 | 331 | ug/kg | 1.0 | | | | | |
| Pyrene | | 1420 | 166 | 331 | ug/kg | 1.0 | | | | | |

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

DDT 10/08/96 2345 91877 3

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414

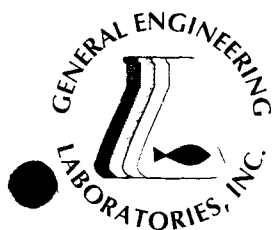
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9610069-01



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| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID : SPORT0191-1

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| 2-Fluorobiphenyl | M610 | 83.0 | (30.0 - 115.) |
| Nitrobenzene-d5 | M610 | 63.9 | (23.0 - 120.) |
| p-Terphenyl-d14 | M610 | 93.0 | (37.3 - 128.) |
| Bromofluorobenzene | BTEX-8260 | 118. | (59.7 - 159.) |
| Dibromofluoromethane | BTEX-8260 | 113. | (74.0 - 128.) |
| Toluene-d8 | BTEX-8260 | 113. | (53.4 - 163.) |
| Bromofluorobenzene | NAP-8260 | 118. | (59.7 - 159.) |
| Dibromofluoromethane | NAP-8260 | 113. | (74.0 - 128.) |
| Toluene-d8 | NAP-8260 | 113. | (53.4 - 163.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3550 |

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

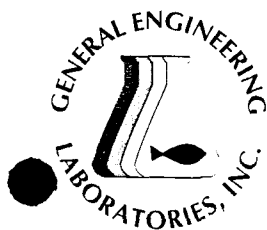
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By





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Laboratory Certifications

| STATE | GEL | EPI |
|-------|--------------|--------------|
| FL | E87156/87294 | E87472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 1 of 2

Sample ID : SPORT0191-2
Lab ID : 9610069-02
Matrix : Soil
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| <i>BTEX - 4 items</i> | | | | | | | | | | | |
| Benzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | JGS2 | 10/09/96 | 1848 | 92006 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Toluene | U | 0.730 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/kg | 1.0 | | | | | |
| Naphthalene | J | 1.57 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| <i>Polynuclear Aromatic Hydrocarbons - 16 items</i> | | | | | | | | | | | |
| Acenaphthene | | 715 | 164 | 330 | ug/kg | 1.0 | BDG | 10/10/96 | 2314 | 91877 | 2 |
| Acenaphthylene | U | 0.00 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Anthracene | | 787 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)anthracene | | 1520 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)pyrene | | 1190 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(b)fluoranthene | | 1440 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(ghi)perylene | | 718 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(k)fluoranthene | | 663 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Chrysene | | 1570 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Dibenzo(a,h)anthracene | J | 285 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Fluoranthene | | 2890 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Fluorene | | 380 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Indeno(1,2,3-c,d)pyrene | | 784 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Phenanthrene | | 1590 | 164 | 330 | ug/kg | 1.0 | | | | | |
| Pyrene | | 3120 | 164 | 330 | ug/kg | 1.0 | | | | | |

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

DDT 10/08/96 2345 91877 3

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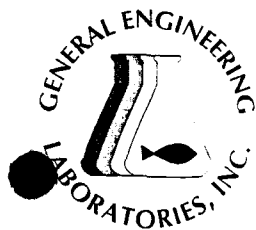
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| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID : SPORT0191-2

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| 2-Fluorobiphenyl | M610 | 87.0 | (30.0 - 115.) |
| Nitrobenzene-d5 | M610 | 49.4 | (23.0 - 120.) |
| p-Terphenyl-d14 | M610 | 109. | (37.3 - 128.) |
| Bromofluorobenzene | BTEX-8260 | 123. | (59.7 - 159.) |
| Dibromofluoromethane | BTEX-8260 | 115. | (74.0 - 128.) |
| Toluene-d8 | BTEX-8260 | 116. | (53.4 - 163.) |
| Bromofluorobenzene | NAP-8260 | 123. | (59.7 - 159.) |
| Dibromofluoromethane | NAP-8260 | 115. | (74.0 - 128.) |
| Toluene-d8 | NAP-8260 | 116. | (53.4 - 163.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3550 |

Notes:

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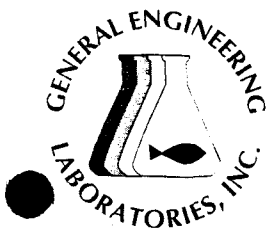
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Karen Blakeney
Reviewed By





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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

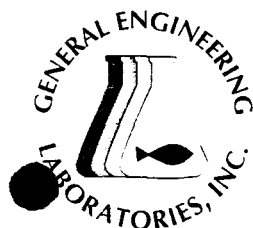
Report Date: October 17, 1996

Page 1 of 3

Sample ID : SPORT0191-3
Lab ID : 9610069-03
Matrix : GroundH2O
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| <i>BTEX - 4 items</i> | | | | | | | | | | | |
| Benzene | U | 0.320 | 1.00 | 2.00 | ug/l | 1.0 | RMB | 10/10/96 | 1113 | 91989 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/l | 1.0 | | | | | |
| Toluene | U | 0.250 | 1.00 | 2.00 | ug/l | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/l | 1.0 | | | | | |
| Methyl Tert Butyl Ether | U | 0.00 | 1.00 | 2.00 | ug/l | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 1.00 | 2.00 | ug/l | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| <i>Polynuclear Aromatic Hydrocarbons - 16 items</i> | | | | | | | | | | | |
| Acenaphthene | J | 80.0 | 50.0 | 100 | ug/l | 10. | JCB | 10/15/96 | 1403 | 91775 | 2 |
| Acenaphthylene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Anthracene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Benzo(a)anthracene | J | 87.0 | 50.0 | 100 | ug/l | 10. | | | | | |
| Benzo(a)pyrene | J | 54.0 | 50.0 | 100 | ug/l | 10. | | | | | |
| Benzo(b)fluoranthene | J | 94.0 | 50.0 | 100 | ug/l | 10. | | | | | |
| Benzo(ghi)perylene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Benzo(k)fluoranthene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Chrysene | J | 58.0 | 50.0 | 100 | ug/l | 10. | | | | | |
| Dibenzo(a,h)anthracene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Fluoranthene | | 396 | 50.0 | 100 | ug/l | 10. | | | | | |
| Fluorene | U | 15.0 | 50.0 | 100 | ug/l | 10. | | | | | |
| Indeno(1,2,3-c,d)pyrene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Naphthalene | U | 0.00 | 50.0 | 100 | ug/l | 10. | | | | | |
| Phenanthrene | | 338 | 50.0 | 100 | ug/l | 10. | | | | | |
| Pyrene | | 303 | 50.0 | 100 | ug/l | 10. | | | | | |





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| FL | E87156/87294 | E87472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 17, 1996

Page 2 of 3

Sample ID : SPORT0191-3

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|-----------|-----------|--------|----|----|-------|----|---------|------|------|-------|---|
|-----------|-----------|--------|----|----|-------|----|---------|------|------|-------|---|

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

DDT 10/07/96 1550 91775 3

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| Fluorobiphenyl | M610 | 72.0 | (43.0 - 108.) |
| Nitrobenzene-d5 | M610 | 56.0 | (35.0 - 111.) |
| p-Terphenyl-d14 | M610 | 62.0 | (33.0 - 125.) |
| Bromofluorobenzene | BTEX-8260 | 90.8 | (80.0 - 128.) |
| Dibromofluoromethane | BTEX-8260 | 103. | (67.7 - 135.) |
| Toluene-d8 | BTEX-8260 | 91.6 | (76.8 - 122.) |
| Bromofluorobenzene | MTBE-8260 | 90.8 | (80.0 - 128.) |
| Dibromofluoromethane | MTBE-8260 | 103. | (67.7 - 135.) |
| Toluene-d8 | MTBE-8260 | 91.6 | (76.8 - 122.) |
| Bromofluorobenzene | NAP-8260 | 90.8 | (80.0 - 128.) |
| Dibromofluoromethane | NAP-8260 | 103. | (67.7 - 135.) |
| Toluene-d8 | NAP-8260 | 91.6 | (76.8 - 122.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3510 |

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

● indicates that a quality control analyte recovery is outside of specified acceptance criteria.

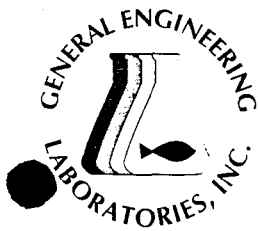
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|-------|--------------|--------------|
| FL | E87156/87294 | E87472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 17, 1996

Page 3 of 3

Sample ID : SPORT0191-3

| M = Method | Method-Description |
|------------|--------------------|
|------------|--------------------|

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney





GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

| STATE | OEL | EPI |
|-------|--------------|--------------|
| FL | 887156/77294 | E17472/17458 |
| NC | 223 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 1 of 2

Sample ID : SPORT0191-4
Lab ID : 9610069-04
Matrix : Soil
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| BTEX - 4 items | | | | | | | | | | | |
| Benzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | JAC | 10/11/96 | 1134 | 92006 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Toluene | U | 0.360 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons - 16 items | | | | | | | | | | | |
| Acenaphthene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | BDG | 10/10/96 | 2346 | 91877 | 2 |
| Acenaphthylene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Anthracene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)anthracene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)pyrene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(b)fluoranthene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(ghi)perylene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(k)fluoranthene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Chrysene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Dibenzo(a,h)anthracene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Fluoranthene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Fluorene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Indeno(1,2,3-c,d)pyrene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Phenanthrene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |
| Pyrene | U | 0.00 | 163 | 330 | ug/kg | 1.0 | | | | | |

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

DDT 10/08/96 2345 91877 3

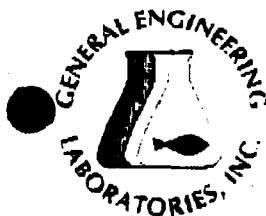
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| FL | EE7156/87294 | EE7472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiern

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID : SPORT0191-4

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| 2-Fluorobiphenyl | M610 | 54.9 | (30.0 - 115.) |
| Nitrobenzene-d5 | M610 | 44.9 | (23.0 - 120.) |
| p-Terphenyl-d14 | M610 | 99.6 | (37.3 - 128.) |
| Bromofluorobenzene | BTEX-8260 | 112. | (59.7 - 159.) |
| Dibromofluoromethane | BTEX-8260 | 82.0 | (74.0 - 128.) |
| Toluene-d8 | BTEX-8260 | 110. | (53.4 - 163.) |
| Bromofluorobenzene | NAP-8260 | 112. | (59.7 - 159.) |
| Dibromofluoromethane | NAP-8260 | 82.0 | (74.0 - 128.) |
| Toluene-d8 | NAP-8260 | 110. | (53.4 - 163.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3550 |

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

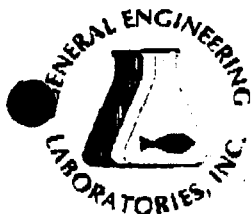
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Laboratory Certifications

| STATE | DEL | EP |
|-------|--------------|--------------|
| FL | 287156/57294 | 287472/57458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiern
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 1 of 3

Sample ID : SPORT0191-5
Lab ID : 9610069-05
Matrix : Soil
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| BTEX - 4 items | | | | | | | | | | | |
| Benzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | JAC | 10/11/96 | 1204 | 92006 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Toluene | U | 0.460 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons - 16 items | | | | | | | | | | | |
| Acenaphthene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | BDG | 10/11/96 | 0019 | 91877 | 2 |
| Acenaphthylene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Anthracene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)anthracene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(a)pyrene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(b)fluoranthene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(ghi)perylene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Benzo(k)fluoranthene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Chrysene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Dibenzo(a,h)anthracene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Fluoranthene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Fluorene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Indeno(1,2,3-c,d)pyrene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Phenanthrene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |
| Pyrene | U | 0.00 | 165 | 330 | ug/kg | 1.0 | | | | | |

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

DDT 10/08/96 2345 91877 3

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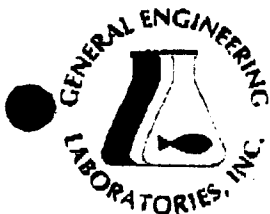


9610069-05

P.011

TEL: 803-852-5812

OCT. - 17 96 (THU) 08:16 GEN. ENGINEERING



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|-------|--------------|--------------|
| FL | 877156/87294 | 877472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 3

Sample ID : SPORT0191-5

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|-----------|-----------|--------|----|----|-------|----|---------|------|------|-------|---|
|-----------|-----------|--------|----|----|-------|----|---------|------|------|-------|---|

Comments:

Volatile Organics contained matrix interferences.

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| 2-Fluorobiphenyl | M610 | 89.4 | (30.0 - 115.) |
| Nitrobenzene-d5 | M610 | 67.6 | (23.0 - 120.) |
| p-Terphenyl-d14 | M610 | 117. | (37.3 - 128.) |
| Bromofluorobenzene | BTEX-8260 | 113. | (59.7 - 159.) |
| Dibromofluoromethane | BTEX-8260 | 86.0 | (74.0 - 128.) |
| Toluene-d8 | BTEX-8260 | 112. | (53.4 - 163.) |
| Bromofluorobenzene | NAP-8260 | 113. | (59.7 - 159.) |
| Dibromofluoromethane | NAP-8260 | 86.0 | (74.0 - 128.) |
| Toluene-d8 | NAP-8260 | 112. | (53.4 - 163.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3550 |

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

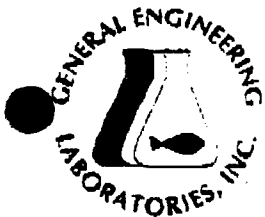
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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| NC | 233 | |
| SC | 10120 | 10382 |
| IN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 3 of 3

Sample ID : SPORT0191-5

M = Method Method-Description

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney

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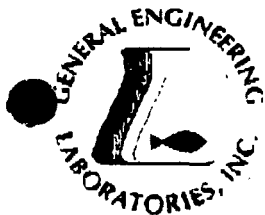
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| STATE | GEL | BPI |
| FL | 287156/87294 | 287472/87458 |
| NC | 233 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hotson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 1 of 2

Sample ID : SPORT0191-6
Lab ID : 9610069-06
Matrix : Soil
Date Collected : 10/02/96
Date Received : 10/02/96
Priority : Routine
Collector : Client

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | M |
|---|-----------|--------|------|------|-------|-----|---------|----------|------|-------|---|
| Volatile Organics | | | | | | | | | | | |
| BTEX - 4 items | | | | | | | | | | | |
| Benzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | JGS2 | 10/09/96 | 1614 | 92006 | 1 |
| Ethylbenzene | U | 0.00 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Toluene | U | 0.940 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Xylenes (TOTAL) | U | 0.00 | 1.00 | 4.00 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.770 | 1.00 | 2.00 | ug/kg | 1.0 | | | | | |
| Extractable Organics | | | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons - 16 items | | | | | | | | | | | |
| Acenaphthene | U | 0.00 | 166 | 332 | ug/kg | 1.0 | BDG | 10/11/96 | 0051 | 91877 | 2 |
| Acenaphthylene | U | 0.00 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Anthracene | U | 0.00 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Benzo(a)anthracene | | 362 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Benzo(a)pyrene | | 488 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Benzo(b)fluoranthene | | 458 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Benzo(ghi)perylene | | 1290 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Benzo(k)fluoranthene | J | 212 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Chrysene | | 452 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Dibenzo(a,h)anthracene | J | 249 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Fluoranthene | | 740 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Fluorene | U | 0.00 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Indeno(1,2,3-c,d)pyrene | | 720 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Naphthalene | U | 0.00 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Phenanthrene | | 438 | 166 | 332 | ug/kg | 1.0 | | | | | |
| Pyrene | | 764 | 166 | 332 | ug/kg | 1.0 | | | | | |

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

DDT 10/08/96 2345 91877 3

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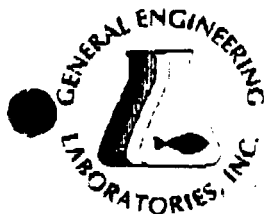
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| STATE | QEL | EPI |
|-------|--------------|--------------|
| FL | E57156/87294 | E37472/87458 |
| NC | 239 | |
| SC | 10120 | 10582 |
| TN | 02934 | 02934 |

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID : SPORT0191-6

| Surrogate Recovery | Test | Percent% | Acceptable Limits |
|----------------------|-----------|----------|-------------------|
| 2-Fluorobiphenyl | M610 | 67.0 | (30.0 - 115.) |
| Nitrobenzene-d5 | M610 | 49.2 | (23.0 - 120.) |
| p-Terphenyl-d14 | M610 | 108. | (37.3 - 128.) |
| Bromofluorobenzene | BTEX-8260 | 116. | (59.7 - 159.) |
| Dibromofluoromethane | BTEX-8260 | 121. | (74.0 - 128.) |
| Toluene-d8 | BTEX-8260 | 119. | (53.4 - 163.) |
| Bromofluorobenzene | NAP-8260 | 116. | (59.7 - 159.) |
| Dibromofluoromethane | NAP-8260 | 121. | (74.0 - 128.) |
| Toluene-d8 | NAP-8260 | 119. | (53.4 - 163.) |

| M = Method | Method-Description |
|------------|--------------------|
| M 1 | EPA 8260 |
| M 2 | EPA 8270 |
| M 3 | EPA 3550 |

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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BB

CHAIN OF CUSTODY RECORD

96/0069

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

UST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (803) 743-6482

TANK ID & LOCATION

UST Bldg 650, Charleston Naval Base, Halsey St., N. Charleston, SC.

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

Fuel oil

SIZE (GAL)


1000 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, cut into sections, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.


Sidney Ladson (Name) 1-1-7-97 (Date)